Bi-Weekly Summary Report

Temporary Discharge of Water to the Underground Mine and Discharge of Sludge and Off-Spec Water Chevron Mining Inc., Questa Mine, Questa, New Mexico Report Period: January 4, 2016 through January 17, 2017

Report Date: January 20, 2017

Water Collection System

Volume Discharged to the Underground Mine (gallons):

Spring 13, Spring 39, GWW-1, GWW-2, and GWW-3 combined flows: 0 (Includes water used for the commissioning of the temporary water treatment facility)

Water Quality Sample Results:

Quarterly samples were not collected during the referenced period

Pilot Surface-Based Mine Dewatering System:

A quarterly sample was not collected during the referenced period.

Mine Water Levels and Water Quality from Shaft #1 Monitoring Well:

Water elevation = 7,190.45 feet on 01/18/2017

A quarterly sample was collected from Shaft #1-MMW on 12/07/2016, the analytical results are attached.

Mine Water Elevation-Capacity:

See attached elevation-capacity graph

Moly Adit Water Quality and Flow:

A quarterly sample was collected on 12/07/2016, the analytical results are attached.

A quarterly flow measurement was not collected during the referenced period

Bedrock Monitoring Wells Water Quality and Water Levels:

Quarterly sample and water level from MMW-8A was collected on 12/02

Quarterly sample and water level from MMW-19B was collected on 12/02

Quarterly samples and water levels from MMW-36C and MMW-44B were collected on 12/05

December analytical results for MMW-8A, MMW-19B, MMW-36C, and MMW-44B are attached

Alluvial Seeps/Springs Water Quality and Flow:

Quarterly Samples were collected from Spring 13 and Spring 39 on 12/12/2017, the analytical results are pending

Temporary WTP:

Work on the Temporary Water Treatment Plant was halted in November 2016 due to a building collapse, alternatives are currently being evaluated

Volume of treated water discharged to Outfall 001 (gallons): No treated water discharged Volume of off-spec water routed to upset cell (gallons): No water routed to upset cell Daily pH at designated 001 Outfall: No daily pH recorded at Outfall 001

Monthly water quality sample results (designated 001 Outfall): No sample collected at Outfall 001 Volume of sludge disposed in Interim Repository (cubic yards): No sludge disposed during the reporting period.

Permanent WTP:

This system is currently under construction. No measurements or samples collected from this location.

Volume of shake down water discharged to the underground mine (gallons):

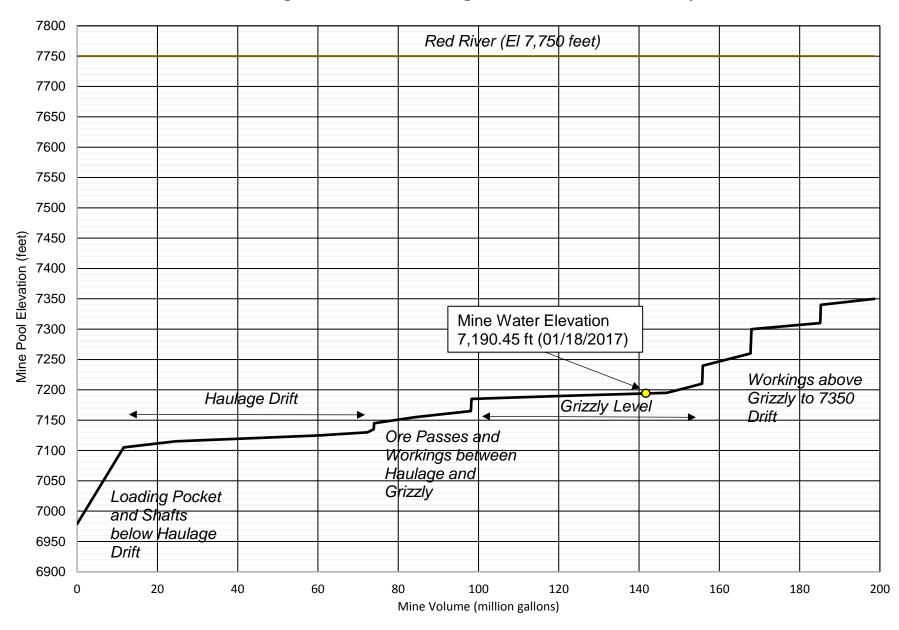
Volume of treated water discharged to Outfall 001 (gallons):

Water treatment quality parameters (pH, temp., spec. cond.):

Notes:

Reporting requirements based on NMED September 12, 2016 approval for temporary discharge of impacted water to the underground mine and NMED September 26, 2016 approval for temporary discharge of sludge and off-spec water

Underground Mine Workings - Cumulative Volume by Elevation





Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/12/2017

CLIENT: Chevron EMC Mining Inc- Questa Mine Client Sample ID: Shaft 1-MMW-T01N-12072016

DP 1055 **Project: Collection Date:** 12/7/2016 1:11:00 PM Lab ID: 1612522-005 Matrix: GROUNDWA Received Date: 12/9/2016 8:50:00 AM

Analyses	Result	MDL	PQL	Qual	Units]	DF Date Analyzed
EPA METHOD 300.0: ANIONS							Analyst: LGT
Fluoride	3.0	0.050	0.10		mg/L	1	12/23/2016 5:07:57 PM
Chloride	65	1.0	10		mg/L	20	12/23/2016 5:20:21 PM
Sulfate	1200	7.1	25		mg/L	50	12/28/2016 4:48:58 AM
Nitrate+Nitrite as N	ND	0.46	1.0		mg/L	5	12/23/2016 7:12:02 PM
EPA METHOD 245.1: MERCURY							Analyst: JLF
Mercury	ND	0.000053	0.00020		mg/L	1	12/21/2016 5:59:40 PM
SM2320B: ALKALINITY							Analyst: JRR
Bicarbonate (As CaCO3)	14.32	1.485	20.00	J	mg/L CaC	1	12/14/2016 1:24:30 PM
Carbonate (As CaCO3)	3.600	2.000	2.000		mg/L CaC	1	12/14/2016 1:24:30 PM
Total Alkalinity (as CaCO3)	17.92	1.485	20.00	J	mg/L CaC	1	12/14/2016 1:24:30 PM
SM2540C MOD: TOTAL DISSOLVED S	OLIDS						Analyst: KS
Total Dissolved Solids	1800	52.5	100	*D	mg/L	1	12/15/2016 5:52:00 PM
EPA METHOD 180.1: TURBIDITY							Analyst: SRM
Turbidity	31	0.50	0.50	*H	NTU	1	12/9/2016 3:24:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 22 J
- P Sample pH Not In Range
- RL Reporting Detection Limit

Date Reported: 1/12/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chevron EMC Mining Inc- Questa Mine Client Sample ID: Shaft 1-MMW-D01N-12072016

Project: DP 1055 **Collection Date:** 12/7/2016 1:11:00 PM Lab ID: 1612522-006 Matrix: GROUNDWA Received Date: 12/9/2016 8:50:00 AM

Analyses	Result	MDL	PQL	Qual	Units]	DF Date Analyzed
EPA METHOD 200.7: DISSOLVED ME	TALS						Analyst: MED
Aluminum	ND	0.0038	0.020		mg/L	1	12/30/2016 2:45:17 PM
Barium	0.040	0.0013	0.0020		mg/L	1	12/30/2016 2:45:17 PM
Beryllium	ND	0.00031	0.0020		mg/L	1	12/30/2016 2:45:17 PM
Cadmium	ND	0.00075	0.0020		mg/L	1	12/30/2016 2:45:17 PM
Calcium	220	5.0	10		mg/L	10	12/30/2016 2:47:13 PM
Chromium	ND	0.0018	0.0060		mg/L	1	12/30/2016 2:45:17 PM
Cobalt	0.0019	0.00074	0.0060	J	mg/L	1	12/30/2016 2:45:17 PM
Copper	0.011	0.0040	0.0060		mg/L	1	12/30/2016 2:45:17 PM
Iron	0.039	0.020	0.020		mg/L	1	12/30/2016 2:45:17 PM
Magnesium	26	0.50	1.0		mg/L	1	12/30/2016 2:45:17 PM
Manganese	0.20	0.00032	0.0020	*	mg/L	1	12/30/2016 2:45:17 PM
Molybdenum	0.026	0.0019	0.0080		mg/L	1	12/30/2016 2:45:17 PM
Nickel	0.0074	0.0024	0.010	J	mg/L	1	12/30/2016 2:45:17 PM
Potassium	86	0.50	1.0		mg/L	1	12/30/2016 2:45:17 PM
Silicon	0.071	0.019	0.080	J	mg/L	1	12/30/2016 2:45:17 PM
Silver	ND	0.0028	0.0050		mg/L	1	12/30/2016 2:45:17 PM
Sodium	210	5.0	10		mg/L	10	12/30/2016 2:47:13 PM
Vanadium	0.0018	0.0013	0.050	J	mg/L	1	12/30/2016 2:45:17 PM
Zinc	ND	0.0028	0.010		mg/L	1	12/30/2016 2:45:17 PM
EPA 200.8: DISSOLVED METALS							Analyst: JLF
Arsenic	0.0017	0.00014	0.0010		mg/L	1	12/12/2016 10:29:32 PM
Lead	ND	0.00017	0.00050		mg/L	1	12/12/2016 10:29:32 PM
Selenium	0.0019	0.00021	0.0010		mg/L	1	12/12/2016 10:29:32 PM
Uranium	0.000067	0.000051	0.00050	J	mg/L	1	12/12/2016 10:29:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 22 J
- P Sample pH Not In Range
- RL Reporting Detection Limit

12/16/2016 10:51:00 AM

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/12/2017

CLIENT: Chevron EMC Mining Inc- Questa Mine Client Sample ID: Moly Adit-T01N-12072016

 Project:
 DP 1055
 Collection Date: 12/7/2016 2:00:00 PM

 Lab ID:
 1612522-007
 Matrix: GROUNDWA
 Received Date: 12/9/2016 8:50:00 AM

1860

52.5

Result **MDL PQL** Qual Units DF **Date Analyzed Analyses EPA METHOD 300.0: ANIONS** Analyst: LGT Fluoride 2.7 0.25 0.50 mg/L 5 12/23/2016 5:32:45 PM Chloride 9.0 0.25 2.5 mg/L 5 12/23/2016 5:32:45 PM Sulfate 990 7.1 25 50 12/28/2016 5:01:23 AM mg/L Nitrate+Nitrite as N ND 0.46 1.0 5 12/23/2016 7:24:26 PM mg/L **EPA METHOD 245.1: MERCURY** Analyst: JLF Mercury ND 0.000053 0.00020 mg/L 1 12/21/2016 6:01:27 PM SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) mg/L CaC 1 12/14/2016 1:32:15 PM 312.8 1.485 20.00 Carbonate (As CaCO3) ND 2.000 2.000 mg/L CaC 1 12/14/2016 1:32:15 PM mg/L CaC 1 Total Alkalinity (as CaCO3) 312.8 1.485 20.00 12/14/2016 1:32:15 PM SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS

100

*D

mg/L

1

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Total Dissolved Solids

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 22
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/12/2017

CLIENT: Chevron EMC Mining Inc- Questa Mine Client Sample ID: Moly Adit-D01N-12072016

DP 1055 **Project:** Collection Date: 12/7/2016 2:00:00 PM Lab ID: 1612522-008 Matrix: GROUNDWA **Received Date: 12/9/2016 8:50:00 AM**

Analyses	Result	MDL	PQL	Qual	Units	I	OF Date Analyzed
EPA METHOD 200.7: DISSOLVED MI	ETALS						Analyst: MED
Aluminum	ND	0.0038	0.020		mg/L	1	12/30/2016 2:49:21 PM
Barium	0.022	0.0013	0.0020		mg/L	1	12/30/2016 2:49:21 PM
Beryllium	0.00070	0.00031	0.0020	J	mg/L	1	12/30/2016 2:49:21 PM
Cadmium	ND	0.00075	0.0020		mg/L	1	12/30/2016 2:49:21 PM
Calcium	420	5.0	10		mg/L	10	12/30/2016 2:56:55 PM
Chromium	ND	0.0018	0.0060		mg/L	1	12/30/2016 2:49:21 PM
Cobalt	0.0029	0.00074	0.0060	J	mg/L	1	12/30/2016 2:49:21 PM
Copper	ND	0.0040	0.0060		mg/L	1	12/30/2016 2:49:21 PM
Iron	52	2.0	2.0	*	mg/L	100	1/3/2017 5:26:22 PM
Magnesium	53	0.50	1.0		mg/L	1	12/30/2016 2:49:21 PM
Manganese	2.2	0.0032	0.020	*	mg/L	10	12/30/2016 2:56:55 PM
Molybdenum	0.025	0.0019	0.0080		mg/L	1	12/30/2016 2:49:21 PM
Nickel	ND	0.0024	0.010		mg/L	1	12/30/2016 2:49:21 PM
Potassium	3.6	0.50	1.0		mg/L	1	12/30/2016 2:49:21 PM
Silicon	11	0.19	0.80		mg/L	10	12/30/2016 2:56:55 PM
Silver	ND	0.0028	0.0050		mg/L	1	12/30/2016 2:49:21 PM
Sodium	33	0.50	1.0		mg/L	1	12/30/2016 2:49:21 PM
Vanadium	0.0025	0.0013	0.050	J	mg/L	1	12/30/2016 2:49:21 PM
Zinc	0.017	0.0028	0.010		mg/L	1	12/30/2016 2:49:21 PM
EPA 200.8: DISSOLVED METALS							Analyst: JLF
Arsenic	0.00050	0.00014	0.0010	J	mg/L	1	12/12/2016 10:45:00 PM
Lead	ND	0.00017	0.00050		mg/L	1	12/12/2016 10:45:00 PM
Selenium	0.00092	0.00021	0.0010	J	mg/L	1	12/12/2016 10:45:00 PM
Uranium	0.084	0.00026	0.0025	*	mg/L	5	12/13/2016 6:55:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 8 of 22 J
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/5/2017

CLIENT: Chevron EMC Mining Inc- Questa Mine Client Sample ID: MMW-36C-T01N-12052016

DP 1055 **Project: Collection Date:** 12/5/2016 12:45:00 PM Lab ID: 1612512-003 Matrix: GROUNDWA **Received Date: 12/9/2016 8:50:00 AM**

Analyses	Result	MDL	PQL	Qual	Units	D	OF Date Analyzed
EPA METHOD 300.0: ANIONS							Analyst: LGT
Fluoride	28	1.0	2.0	*	mg/L	20	12/23/2016 6:22:34 PM
Chloride	33	1.0	10		mg/L	20	12/23/2016 6:22:34 PM
Sulfate	4300	14	50		mg/L	100	12/28/2016 3:46:55 AM
Nitrate+Nitrite as N	ND	0.46	1.0		mg/L	5	12/23/2016 9:28:42 PM
EPA METHOD 245.1: MERCURY							Analyst: JLF
Mercury	0.000055	0.000053	0.00020	J	mg/L	1	12/21/2016 5:45:23 PM
SM2320B: ALKALINITY							Analyst: JRR
Bicarbonate (As CaCO3)	ND	1.485	20.00		mg/L CaC	1	12/12/2016 2:18:44 PM
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L CaC	1	12/12/2016 2:18:44 PM
Total Alkalinity (as CaCO3)	ND	1.485	20.00		mg/L CaC	1	12/12/2016 2:18:44 PM
SM2540C MOD: TOTAL DISSOLVED	SOLIDS						Analyst: SRM
Total Dissolved Solids	5970	10.5	20.0	*	mg/L	1	12/12/2016 5:47:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 25 J
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/5/2017

CLIENT: Chevron EMC Mining Inc- Questa Mine Client Sample ID: MMW-36C-D01N-12052016

 Project:
 DP 1055
 Collection Date: 12/5/2016 12:45:00 PM

 Lab ID:
 1612512-004
 Matrix: GROUNDWA
 Received Date: 12/9/2016 8:50:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF Date Analyzed
EPA METHOD 200.7: DISSOLVED MET	ΓALS					Analyst: MED
Aluminum	110	1.9	10	*	mg/L	500 12/28/2016 11:51:00 AM
Barium	ND	0.0066	0.010		mg/L	5 12/19/2016 5:29:55 PM
Beryllium	0.011	0.0016	0.010	*	mg/L	5 12/19/2016 5:29:55 PM
Cadmium	ND	0.0037	0.010		mg/L	5 12/19/2016 5:29:55 PM
Calcium	440	5.0	10		mg/L	10 12/14/2016 3:27:48 PM
Chromium	ND	0.0088	0.030		mg/L	5 12/19/2016 5:29:55 PM
Cobalt	0.77	0.0037	0.030		mg/L	5 12/19/2016 5:29:55 PM
Copper	ND	0.020	0.030		mg/L	5 12/19/2016 5:29:55 PM
Iron	160	10	10	*	mg/L	500 12/19/2016 5:33:39 PM
Magnesium	470	5.0	10		mg/L	10 12/14/2016 3:27:48 PM
Manganese	71	0.032	0.20	*	mg/L	100 12/19/2016 5:31:41 PM
Molybdenum	0.017	0.0096	0.040	J	mg/L	5 12/19/2016 5:29:55 PM
Nickel	1.4	0.012	0.050	*	mg/L	5 12/19/2016 5:29:55 PM
Potassium	8.4	2.5	5.0		mg/L	5 12/19/2016 5:29:55 PM
Silicon	28	0.19	0.80		mg/L	10 12/14/2016 3:27:48 PM
Silver	ND	0.014	0.025		mg/L	5 12/19/2016 5:29:55 PM
Sodium	63	5.0	10		mg/L	10 12/14/2016 3:27:48 PM
Vanadium	0.057	0.0064	0.25	J	mg/L	5 12/19/2016 5:29:55 PM
Zinc	4.3	0.014	0.050		mg/L	5 12/19/2016 5:29:55 PM
EPA 200.8: DISSOLVED METALS						Analyst: JLF
Arsenic	0.0073	0.00069	0.0050		mg/L	5 12/13/2016 6:29:46 PM
Lead	0.030	0.00084	0.0025	*	mg/L	5 12/13/2016 6:29:46 PM
Selenium	0.0082	0.0011	0.0050		mg/L	5 12/13/2016 6:29:46 PM
Uranium	ND	0.00026	0.0025		mg/L	5 12/13/2016 6:29:46 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 25
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/5/2017

CLIENT: Chevron EMC Mining Inc- Questa Mine **Client Sample ID:** MMW-44B-T01N-12052016

DP 1055 **Project: Collection Date:** 12/5/2016 11:30:00 AM

Lab ID: 1612512-005 Matrix: GROUNDWA **Received Date: 12/9/2016 8:50:00 AM**

Analyses	Result	MDL	PQL	Qual	Units]	DF Date Analyzed
EPA METHOD 300.0: ANIONS							Analyst: LGT
Fluoride	1.6	0.25	0.50		mg/L	5	12/23/2016 6:59:47 PM
Chloride	27	0.25	2.5		mg/L	5	12/23/2016 6:59:47 PM
Sulfate	1600	7.1	25		mg/L	50	12/28/2016 3:59:19 AM
Nitrate+Nitrite as N	ND	0.46	1.0		mg/L	5	12/23/2016 9:41:07 PM
EPA METHOD 245.1: MERCURY							Analyst: JLF
Mercury	ND	0.000053	0.00020		mg/L	1	12/21/2016 5:43:31 PM
SM2320B: ALKALINITY							Analyst: JRR
Bicarbonate (As CaCO3)	219.3	1.485	20.00		mg/L CaC	1	12/12/2016 2:31:29 PM
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L CaC	1	12/12/2016 2:31:29 PM
Total Alkalinity (as CaCO3)	219.3	1.485	20.00		mg/L CaC	1	12/12/2016 2:31:29 PM
SM2540C MOD: TOTAL DISSOLVED S	SOLIDS						Analyst: SRM
Total Dissolved Solids	2600	21.0	40.0	*D	mg/L	1	12/12/2016 5:47:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 25 J
- P Sample pH Not In Range
- RL Reporting Detection Limit

Date Reported: 1/5/2017

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MMW-44B-D01N-12052016 **Collection Date:** 12/5/2016 11:30:00 AM

CLIENT: Chevron EMC Mining Inc- Questa Mine DP 1055

Lab ID: 1612512-006 Matrix: GROUNDWA **Received Date: 12/9/2016 8:50:00 AM**

Analyses	Result	MDL	PQL	Qual	Units	Ι	DF Date Analyzed
EPA METHOD 200.7: DISSOLVED ME	TALS						Analyst: MED
Aluminum	ND	0.0038	0.020		mg/L	1	12/14/2016 3:29:28 PM
Barium	0.012	0.0013	0.0020		mg/L	1	12/14/2016 3:29:28 PM
Beryllium	0.0012	0.00031	0.0020	J	mg/L	1	12/14/2016 3:29:28 PM
Cadmium	ND	0.00075	0.0020		mg/L	1	12/14/2016 3:29:28 PM
Calcium	520	5.0	10		mg/L	10	12/14/2016 3:40:53 PM
Chromium	ND	0.0018	0.0060		mg/L	1	12/14/2016 3:29:28 PM
Cobalt	0.0024	0.00074	0.0060	J	mg/L	1	12/14/2016 3:29:28 PM
Copper	ND	0.0040	0.0060		mg/L	1	12/19/2016 5:43:41 PM
Iron	5.7	0.20	0.20	*	mg/L	10	12/14/2016 3:40:53 PM
Magnesium	42	0.50	1.0		mg/L	1	12/14/2016 3:29:28 PM
Manganese	6.0	0.0032	0.020	*	mg/L	10	12/14/2016 3:40:53 PM
Molybdenum	ND	0.0019	0.0080		mg/L	1	12/14/2016 3:29:28 PM
Nickel	ND	0.0024	0.010		mg/L	1	12/19/2016 5:43:41 PM
Potassium	7.3	0.50	1.0		mg/L	1	12/14/2016 3:29:28 PM
Silicon	8.4	0.19	0.80		mg/L	10	12/14/2016 3:40:53 PM
Silver	ND	0.0028	0.0050		mg/L	1	12/14/2016 3:29:28 PM
Sodium	130	5.0	10		mg/L	10	12/14/2016 3:40:53 PM
Vanadium	ND	0.0013	0.050		mg/L	1	12/14/2016 3:29:28 PM
Zinc	ND	0.0028	0.010		mg/L	1	12/19/2016 5:43:41 PM
EPA 200.8: DISSOLVED METALS							Analyst: JLF
Arsenic	0.00088	0.00069	0.0050	J	mg/L	5	12/13/2016 6:34:55 PM
Lead	ND	0.00084	0.0025		mg/L	5	12/13/2016 6:34:55 PM
Selenium	0.0014	0.0011	0.0050	J	mg/L	5	12/13/2016 6:34:55 PM
Uranium	0.00049	0.00026	0.0025	J	mg/L	5	12/13/2016 6:34:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Project:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 25 J
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report

Lab Order **1612207**

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chevron EMC Mining Inc- Questa Mine

Client Sample ID: MMW-8A-T01N-12022016

 Project:
 DP 1055
 Collection Date: 12/2/2016 8:54:00 AM

 Lab ID:
 1612207-001
 Matrix: GROUNDWA
 Received Date: 12/5/2016 10:00:00 AM

Result **MDL PQL** Qual Units DF **Date Analyzed Analyses EPA METHOD 300.0: ANIONS** Analyst: LGT 12/9/2016 5:16:26 AM Fluoride 2.4 1.0 2.0 mg/L 20 Chloride 6.3 0.051 0.50 mg/L 1 12/9/2016 4:39:13 AM Sulfate 1400 7.1 25 50 12/16/2016 4:35:08 PM mg/L Nitrate+Nitrite as N ND 0.46 1.0 5 12/17/2016 4:34:55 AM mg/L **EPA METHOD 245.1: MERCURY** Analyst: pmf Mercury ND 0.000054 0.00020 mg/L 1 12/15/2016 3:49:30 PM SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) mg/L CaC 1 12/6/2016 7:13:54 PM 156.9 1.485 20.00 Carbonate (As CaCO3) ND 2.000 2.000 mg/L CaC 1 12/6/2016 7:13:54 PM Total Alkalinity (as CaCO3) 156.9 1.485 20.00 mg/L CaC 1 12/6/2016 7:13:54 PM SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS **Total Dissolved Solids** 12/8/2016 3:20:00 PM 2350 10.5 20.0 mg/L 1

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/29/2016

CLIENT: Chevron EMC Mining Inc- Questa Mine Client Sample ID: MMW-8A-D01N-12022016

Project: DP 1055 **Collection Date:** 12/2/2016 8:54:00 AM Lab ID: 1612207-002 Matrix: GROUNDWA Received Date: 12/5/2016 10:00:00 AM

Result	MDL	PQL	Qual	Units]	DF Date Analyzed
ETALS						Analyst: MED
ND	0.0038	0.020		mg/L	1	12/14/2016 10:21:01 AM
0.022	0.0013	0.0020		mg/L	1	12/14/2016 10:21:01 AM
0.00069	0.00031	0.0020	J	mg/L	1	12/14/2016 10:21:01 AM
ND	0.00075	0.0020		mg/L	1	12/14/2016 10:21:01 AM
460	5.0	10		mg/L	10	12/14/2016 10:22:53 AM
ND	0.0018	0.0060		mg/L	1	12/14/2016 10:21:01 AM
0.0090	0.00074	0.0060		mg/L	1	12/14/2016 10:21:01 AM
ND	0.0040	0.0060		mg/L	1	12/14/2016 10:21:01 AM
0.81	0.020	0.020	*	mg/L	1	12/14/2016 10:21:01 AM
88	0.50	1.0		mg/L	1	12/14/2016 11:03:57 AM
3.1	0.0032	0.020	*	mg/L	10	12/14/2016 10:22:53 AM
0.0057	0.0019	0.0080	J	mg/L	1	12/14/2016 10:21:01 AM
ND	0.0024	0.010		mg/L	1	12/14/2016 10:21:01 AM
4.2	0.50	1.0		mg/L	1	12/14/2016 10:21:01 AM
13	0.19	0.80		mg/L	10	12/14/2016 10:22:53 AM
ND	0.0028	0.0050		mg/L	1	12/14/2016 10:21:01 AM
39	0.50	1.0		mg/L	1	12/14/2016 11:03:57 AM
0.0043	0.0013	0.050	J	mg/L	1	12/14/2016 10:21:01 AM
0.0039	0.0028	0.010	J	mg/L	1	12/14/2016 10:21:01 AM
						Analyst: JLF
0.0012	0.00014	0.0010		mg/L	1	12/6/2016 8:21:32 PM
ND	0.00084	0.0025		mg/L	5	12/12/2016 9:07:16 PM
0.0017	0.0011	0.0050	J	mg/L	5	12/12/2016 9:07:16 PM
0.0035	0.00026	0.0025		mg/L	5	12/12/2016 9:07:16 PM
	ND 0.022 0.00069 ND 460 ND 0.0090 ND 0.81 88 3.1 0.0057 ND 4.2 13 ND 39 0.0043 0.0039 0.0012 ND 0.0017	ND 0.0038 0.022 0.0013 0.00069 0.00031 ND 0.00075 460 5.0 ND 0.0018 0.0090 0.00074 ND 0.0040 0.81 0.020 88 0.50 3.1 0.0032 0.0057 0.0019 ND 0.0024 4.2 0.50 13 0.19 ND 0.0028 39 0.50 0.0043 0.0013 0.0039 0.0028 0.0012 0.00014 ND 0.00084 0.0017 0.0011	ND 0.0038 0.020 0.022 0.0013 0.0020 0.00069 0.00031 0.0020 ND 0.00075 0.0020 460 5.0 10 ND 0.0018 0.0060 0.0090 0.00074 0.0060 ND 0.0040 0.0060 0.81 0.020 0.020 88 0.50 1.0 3.1 0.0032 0.020 0.0057 0.0019 0.0080 ND 0.0024 0.010 4.2 0.50 1.0 13 0.19 0.80 ND 0.0028 0.0050 39 0.50 1.0 0.0043 0.0013 0.050 0.0039 0.0028 0.010 0.0012 0.00014 0.0010 ND 0.00084 0.0025 0.0017 0.0011 0.0050	ND 0.0038 0.020 0.022 0.0013 0.0020 0.00069 0.00031 0.0020 ND 0.00075 0.0020 460 5.0 10 ND 0.0018 0.0060 0.0090 0.00074 0.0060 ND 0.0040 0.0060 0.81 0.020 0.020 * 88 0.50 1.0 3.1 0.0032 0.020 * 0.0057 0.0019 0.0080 J ND 0.0024 0.010 4.2 0.50 1.0 13 0.19 0.80 ND 0.0028 0.0050 39 0.50 1.0 0.0043 0.0013 0.050 J 0.0012 0.00014 0.0010 ND 0.0028 0.0025 0.0017 0.0011 0.0050 J	ND 0.0038 0.020 mg/L 0.022 0.0013 0.0020 J mg/L 0.00069 0.00031 0.0020 J mg/L ND 0.00075 0.0020 mg/L 460 5.0 10 mg/L ND 0.0018 0.0060 mg/L 0.0090 0.00074 0.0060 mg/L ND 0.0040 0.0060 mg/L 0.81 0.020 0.020 * mg/L 88 0.50 1.0 mg/L 88 0.50 1.0 mg/L 3.1 0.0032 0.020 * mg/L 0.0057 0.0019 0.0080 J mg/L ND 0.0024 0.010 mg/L 13 0.19 0.80 mg/L 13 0.19 0.80 mg/L ND 0.0028 0.0050 mg/L 39 0.50 1.0 mg/L 0.0043 0.0013 0.050 J mg/L 0.0039 0.0028 0.010 J mg/L 0.0012 0.00014 0.0010 mg/L 0.0017 0.0011 0.0050 J mg/L 0.00017 0.0011 0.0050 J mg/L	ND 0.0038 0.020 mg/L 1 0.022 0.0013 0.0020 J mg/L 1 0.00069 0.00031 0.0020 J mg/L 1 ND 0.00075 0.0020 mg/L 1 460 5.0 10 mg/L 1 ND 0.0018 0.0060 mg/L 1 0.0090 0.00074 0.0060 mg/L 1 ND 0.0040 0.0060 mg/L 1 0.81 0.020 0.020 * mg/L 1 88 0.50 1.0 mg/L 1 3.1 0.0032 0.020 * mg/L 1 0.0057 0.0019 0.0080 J mg/L 1 ND 0.0024 0.010 mg/L 1 ND 0.0024 0.010 mg/L 1 0.00 0.0028 0.0050 mg/L 1 0.0043 0.0013 0.050 J mg/L 1 0.0039 0.0028 0.010 J mg/L 1 0.0039 0.0028 0.010 J mg/L 1 0.0039 0.0028 0.010 J mg/L 1 0.0012 0.00014 0.0010 mg/L 5 0.0017 0.0011 0.0050 J mg/L 5

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 14 J
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report

Lab Order 1612207

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chevron EMC Mining Inc- Questa Mine Client Sample ID: MMW-19B-T01N-12022016

DP 1055 **Project: Collection Date:** 12/2/2016 9:51:00 AM Lab ID: 1612207-003 Matrix: GROUNDWA Received Date: 12/5/2016 10:00:00 AM

Analyses	Result	MDL	PQL	Qual	Units	Ι	OF Date Analyzed
EPA METHOD 300.0: ANIONS							Analyst: LGT
Fluoride	2.2	1.0	2.0		mg/L	20	12/9/2016 5:41:16 AM
Chloride	5.7	0.051	0.50		mg/L	1	12/9/2016 5:28:51 AM
Sulfate	1700	7.1	25		mg/L	50	12/16/2016 4:47:32 PM
Nitrate+Nitrite as N	ND	0.46	1.0		mg/L	5	12/17/2016 4:47:19 AM
EPA METHOD 245.1: MERCURY							Analyst: pmf
Mercury	ND	0.000054	0.00020		mg/L	1	12/15/2016 3:51:30 PM
SM2320B: ALKALINITY							Analyst: JRR
Bicarbonate (As CaCO3)	223.6	1.485	20.00		mg/L CaC	1	12/6/2016 7:48:25 PM
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L CaC	1	12/6/2016 7:48:25 PM
Total Alkalinity (as CaCO3)	223.6	1.485	20.00		mg/L CaC	1	12/6/2016 7:48:25 PM
SM2540C MOD: TOTAL DISSOLVED S	OLIDS						Analyst: KS
Total Dissolved Solids	2600	21.0	40.0	*D	mg/L	1	12/8/2016 3:20:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 14 J
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report

Lab Order 1612207

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chevron EMC Mining Inc- Questa Mine **Client Sample ID:** MMW-19B-D01N-12022016

Project: DP 1055 **Collection Date:** 12/2/2016 9:51:00 AM 1612207-004 Lab ID: Matrix: GROUNDWA Received Date: 12/5/2016 10:00:00 AM

Analyses	Result	MDL	PQL	Qual	Units	I	OF Date Analyzed
EPA METHOD 200.7: DISSOLVED ME	TALS						Analyst: MED
Aluminum	ND	0.0038	0.020		mg/L	1	12/14/2016 4:21:45 PM
Barium	0.010	0.0013	0.0020		mg/L	1	12/14/2016 10:33:03 AM
Beryllium	0.0044	0.00031	0.0020	*	mg/L	1	12/14/2016 10:33:03 AM
Cadmium	ND	0.00075	0.0020		mg/L	1	12/14/2016 10:33:03 AM
Calcium	550	5.0	10		mg/L	10	12/14/2016 10:34:44 AM
Chromium	ND	0.0018	0.0060		mg/L	1	12/14/2016 10:33:03 AM
Cobalt	0.015	0.00074	0.0060		mg/L	1	12/14/2016 10:33:03 AM
Copper	ND	0.0040	0.0060		mg/L	1	12/14/2016 10:33:03 AM
Iron	4.0	0.20	0.20	*	mg/L	10	12/14/2016 10:34:44 AM
Magnesium	96	0.50	1.0		mg/L	1	12/14/2016 10:33:03 AM
Manganese	7.4	0.0032	0.020	*	mg/L	10	12/14/2016 10:34:44 AM
Molybdenum	0.0048	0.0019	0.0080	J	mg/L	1	12/14/2016 10:33:03 AM
Nickel	0.030	0.0024	0.010		mg/L	1	12/14/2016 10:33:03 AM
Potassium	3.9	0.50	1.0		mg/L	1	12/14/2016 10:33:03 AM
Silicon	13	0.19	0.80		mg/L	10	12/14/2016 10:34:44 AM
Silver	ND	0.0028	0.0050		mg/L	1	12/14/2016 10:33:03 AM
Sodium	49	0.50	1.0		mg/L	1	12/14/2016 10:33:03 AM
Vanadium	0.0056	0.0013	0.050	J	mg/L	1	12/14/2016 10:33:03 AM
Zinc	0.36	0.0028	0.010		mg/L	1	12/14/2016 10:33:03 AM
EPA 200.8: DISSOLVED METALS							Analyst: JLF
Arsenic	0.0015	0.00069	0.0050	J	mg/L	5	12/12/2016 9:12:24 PM
Lead	0.0079	0.00084	0.0025		mg/L	5	12/12/2016 9:12:24 PM
Selenium	0.0012	0.0011	0.0050	J	mg/L	5	12/12/2016 9:12:24 PM
Uranium	0.043	0.00026	0.0025	*	mg/L	5	12/12/2016 9:12:24 PM
					-		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 14 J
- P Sample pH Not In Range
- RL Reporting Detection Limit